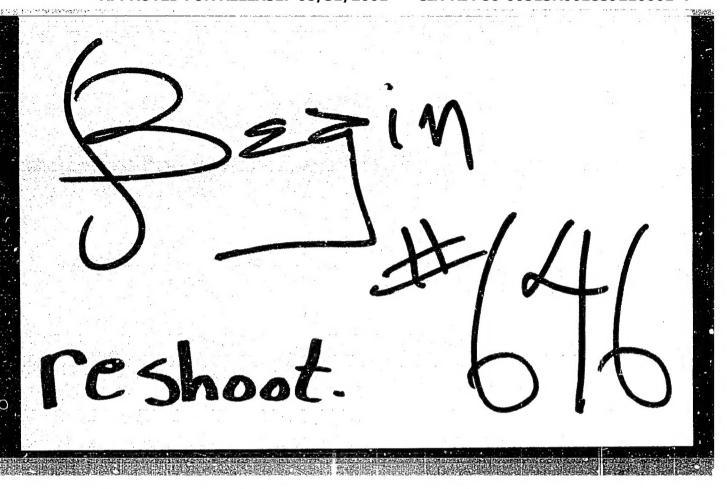
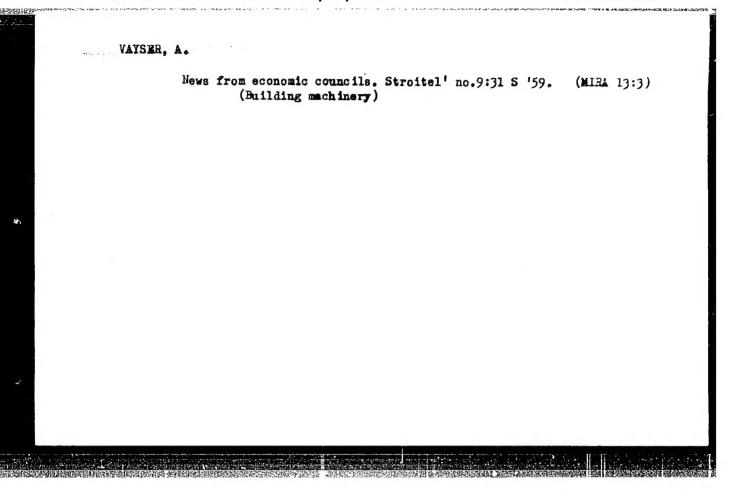
"APPROVED FOR RELEASE: 08/31/2001 CIA-RD

CIA-RDP86-00513R001859210001-4





VAYSER, I. V.

"An Experimental and Theoretical Investigation of the Pneumatic Regulator 04-DP." Cand Tech Sci, Inst of Automatics and Tele-mechanics, Acad Sci USSR, 16 Dec 54. (VM,6 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

USSR/Automatics and telemechanics-pneumatic regulator

FD-2757

Card 1/2

Pub. 10 - 2/11

Author

: Abdullayev, A. A.; Vayser, I. V.; Nadzhafov, E. M. (Moscow)

Title

: Equations of the pneumatic regulator O4

Periodical

: Avtom. i telem., 16, Sep-Oct 1955, 431-453

Abstract

The authors derive the equations to pneumatic regulators of the type O4 (factory "Tizpribor"). Inspite of the fact that these regulators are issued serially (tens of thousands of them in the course of several years) and have been utilized in various branches of the national economy, the designing and computations of systems equipped with regulators of this kind have been made difficult, the authors note, by the fact that up til now equations have not been derived that describe the processes in the regulator and numerical values of the parameters entering these equations have not been determined. They conclude that the derived equations of type O4 regulator and numerical values of their coefficients corresponding to various static regimes permit one knowing the remaining elements of the regulation system (object, final-control mechanism, sensitive element) to write down in numerical form the equations of motion according to final formulas and graphs immediately.

FD-2757

Card 2/2

One reference: V. L. Lossiyevskiy, Osnovy avtomaticheskogo regulirovaniya tekhnologicheskikh protsessov [Principles of the automatic regulation of technological processes], Defense Press, 1950.

Institution :

Submitted : July 14, 1954

USSR/Automatics and telemechanics-stability concept

FD-2762

Card 1/3

Pub. 10 - 7/11

Author

: Vayser, I. V. (Moscow)

Title

: Remarks on the utilization of the concept of "degree of stability"

for the evaluation of regulation process

Periodical

: Avtom. 1 telem., 16, Sep-Oct 1955, 481-482

Abstract

In many industrial regulators of universal designs there exists the possibility of varying the isodrome time constant T_1 all the way up to complete isodrome disconnection (Ti:00) so that it is possible by a smooth turning of the tuning organ to make a gradual transition from a regulator with rigid feedback to an isodrome regulator (e.g. regulator 04 of the factory "Tizpribor"). If the technical conditions on the regulation process admit a static error and if therefore decrease (all the way to zero) of this error is unessential from the viewpoint of engineering requirements, then evaluation of the process in accordance with the degree of stability can lead to erroneous conclusions. This is connected with the fact that the degree of stability indirectly determines the full time of the process to occur, but from the viewpoint of engineering requirements in the above indicated cases only essential is course of the process in regulation time tau and the further course of the process is completely unessential, which is connected only with the decrease of already acceptable static error. The author

FD-2762

Card 2/3

considers a regulation system consisting of a one-contour circuit part of which is shunted by a negative isodrome feedback (Figure 1 in the original). He writes the characteristic equation of this system. in which he notes that in a transition from isodrome to rigid feedback (Ti=00) the second term is converted to zero and the equation possesses one zero root. The author draws (Figure 2) the planes of roots and the corresponding transient processes for systems with rigid feedback (case a) and with isodrome feedback for Ti sufficiently large (case b). He assumes that in the case of rigid feedback the transient process satisfies the engineering requirements and is characterized by the degree of stability delta δ_1 , and that under such conditions as little as desired the isodrome is connected. Here the transient process in the time interval tau varies as little as desired, and the order of the characteristic equation is increased by unity and one real root appears as close to zero as desired. From what has been said it follows that two processes occurring practically identically in the interval of regulation time tau and satisfying in equal measure the engineering requirements are characterized in the first case by a certain finite quantity delta 81 and in the second case by a quantity delta \$2, which is considerably smaller than o1 and close to zero. Consequently in the evaluation of the processes according to the degree of stability in the above indicated cases of connection isodrome feedback it is necessary to take the

FD-2762

Card 3/3

distance from the imaginary axis not up to closest root but up to the second in magnitude from the left, namely as the degree of stability. One reference: Ya. Z. Tsypkin, P. V. Bromberg, "Degree of stability of linear systems," IAN SSSR, OTN, No 12, 1945.

Institution :

Inscitution .

Submitted

: Mar 3, 1955

S/182/63/000/002/003/007 A004/A126

AUTHORS:

Vaysburd, R. A., Tarnovskiy, I. Ya., Teterin, G. P.

TITLE:

On the use of high-speed computers in developing die-forging

technology

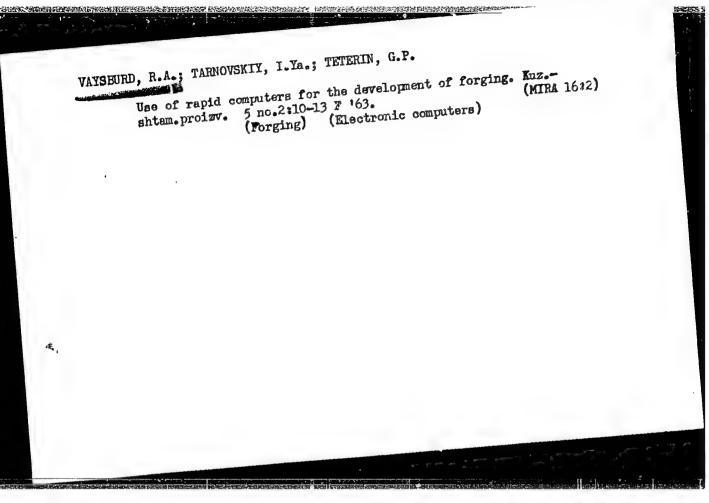
PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, no. 2, 1963, 10 - 13

TEXT: The authors are of the opinion that for solving the problems connected with the design particulars of a given component, e.g. dimensions, material, surface finish etc., high-speed computers can be used. Besides increasing the productivity, they would eliminate any subjective solution of technological problems. Since the most simple and widespread group of forgings are axially symmetric ones, i.e., forgings of the body-of-revolution type, this type of forgings would be the first whose technology could be developed by means of high-speed computers. The authors give a detailed description of a universal program which is being developed at present by a team of scientists of the Section "Metal Working" of the Ural'skiy politekhnicheskiy institut imeni S. M. Kirova (Ural Polytechnic Institute im. S. M. Kirov), and the Laboratory of Forg-

Card 1/2

S/182/63/000/002/003/007
A004/A126

ings of NIPIGORMASh in cooperation with technologists of Uralmashzavod. They enumerate the data to be programmed, the technological details to be determined, present formulae for determining the subprograms of calculating the forging or volume, fixing the overlap and determining the forging draft. The results of volume, fixing the overlap and determining the practicability of using successfully the investigations carried out prove the practicability of using successfully the investigations computers for working out the technological processes of high-speed electronic computers for working out the technological processes of die forging. There are 5 figures.



CIA-RDP86-00513R001859210001-4 "APPROVED FOR RELEASE: 08/31/2001

Tarnovskiy, I. Ya., Ganago, O. A.,

sov/163-58-2-33/46

AUTHORS:

Vaysburd, R. A.

TITLE:

Theoretical Investigations in Open and Closed Dies for

Annular Swage Blocks (Teoreticheskoye issledovaniye shtampovki pokovok kol'tsevoy formy v otkrytykh i zakrytykh

shtampakh)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Metallurgiya, 1958,

Nr 2, pr. 184 - 191 (USSR)

ABSTRACT:

The stages of annular swage blocks in open and closed dies were investigated. In punching in open dies the filling in of the metal into the cavities of the dies as well as the flow of the metal are determined by the position of the critical surface. In stamping in closed dies an unequal flow of the metal in the open zone is observed. This influence is explained by the different direction of the internal friction forces in those zones. The rules governing the flow of the metals in various stages of the stamping of annular swage blocks were determined. A simple formula

Card 1/2

for any moment of the depression, in the second stage of stamping was found (7). By knowing the position of the

CIA-RDP86-00513R001859210001-4 "APPROVED FOR RELEASE: 08/31/2001

Theoretical Investigations in Open and Closed Dies

507/163-58-2-33/46

for Annular Swage Blocks

critical surface for any moment of the depression in the second stage of stamping the height of the metal in cavity may be calculated at any single moment. Taking into account the rules governing the flow of the metal in the various cavities as well as the velocity factors in stamping an efficient construction of the dies may be reached. There are 5 figures and 2 references, 2 of which are Soviet:

ASSOCIATION:

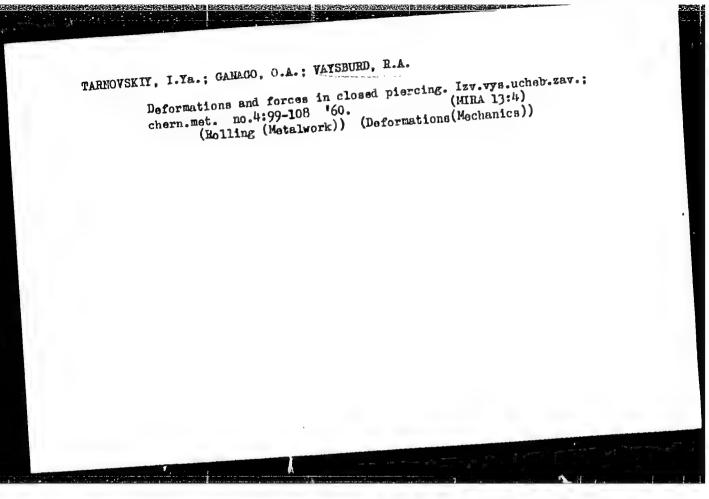
Ural'skiy politekhnicheskiy institut (Ural Polytechnical

Institute)

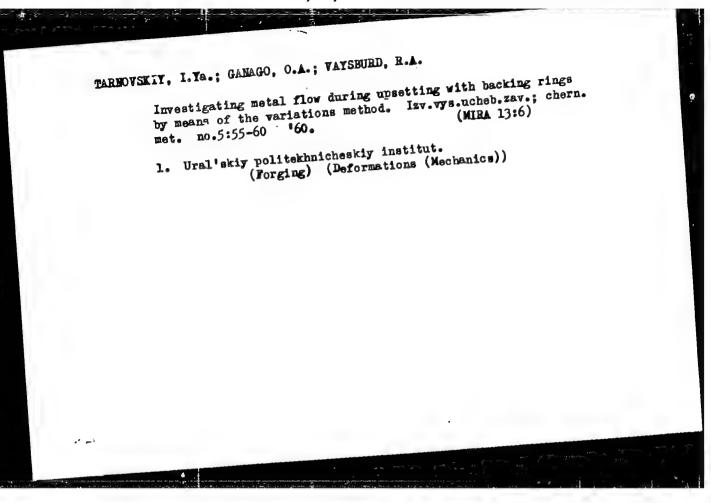
SUBMITTED:

October 5, 1957

Card 2/2



APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210001-4"



TARMOVSKIT, I.Ya., prof., doktor tekhn.nauk; GANAGO, O.A., dots.;
VAYSBURD, R.A., inzh.

Investigating deformations and forces in forging on ring pads.
Izv.vys.ucheb.zav.; chern.met. 2 no.8:55-67 Ag '59.
(MIRA 13:4)

1. Ural'skiy politekhnicheskiy institut. Rekomendovano kafedroy obrabotki metallov devleniyem Ural'skogo politekhnicheskogo instituta.
(Deformations(Mechanics)) (Forging)

18(5) AUTHORS:

Tarmovskiy, I. Ya., Ganago, C. A., Vaysburd, L. A.

TITLE:

Determination of the Forces in Swage Forging of Axially Symmetrical Forgings (Opredclenity unility pri shtampovke

507,1163-53-1-24,50

osesimmetrichnykh pokovok)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Metallurgiya, 1959,

Nr 1, pp 126 - 132 (USSR)

ABSTRACT:

In the articles cited by references 1,2,3,4, and 5 the statement is found that in any kind of drop forging a certain amount of surplus metal is pressed from the swage into the fin groove, after the swage has been completely filled. This stage, termed "pre-forging" stage, of the forging process is distinguished by requiring the maximum forging force which must be determined in order to ascertain the required press or hammer weight. It has been found that in the pre-forging stage not the total metal volume contained in the swage is subjected to deformation, but only that part of the volume being near the swage surface. If ways and means would be found of determining the actual deformation zone in the pre-

Card 1/4

Determination of the Forces in Swage Forging of Axially 504/163-50-1-84/50 Symmetrical Forgings

forging stage a determination of the force required could be achieved with a sufficient accuracy. There is no necessity of taking into account the complicated shape of the swage and thus the number of variables is reduced. Only the diameter of the swage at the inside perimeter of the fin greeve, the dimensions of this groove and the ratio between the fin thickness and the dimensions of the actual deformation zone of the forging in the pre-forging stage must be taken into account. The accuracy in colving this problem depends upon the accuracy with which the boundaries of the actual deformation zone of the metal in the swage can be determined and upon the simplifying restrictions placed upon some of the formulas. Various methods of determining these boundaries are found in publications (Refs 1,2,7,4,5). In this article the shape of the deformation zone is for the sake of simplicity assumed to be conical. For the purpose of determining the actual plastic deformation in the pre-forging stage the law of the minimum of total deformation energy was applied. This allows a theoretical deformation of the boundaries of the deformation

Card 2/4

Determination of the Forces in Swage Forging of Axially S.N,163-50-1-14/50 Symmetrical Forgings

zone. This problem was solved by applying the Litz variation method. Its application to the upsetting deformation of motals has been described in earlier articles (Refs 6,7). Comprehensive experimental information was used in establishing formula (1) which describes the curve expressing the ing formula (1) which describes the curve expressing the actual propagation of the deformation zone in drop forging. This formula only describes the shape of the boundary between the rigid and the plastic zone of the forging. The volume of the deformation zone depends upon the varying parameter a which is determined by the law of the minimum of the total deformation work and is specified by formula (15). a determines the propagation of the zone of plastic deformation. Formula (15) for

is obtained, where p denotes the average spectro productions of standard the yield point at given temperatures and velocities.

The experimental checking of formula (15) yielded satisfactory

Card 3/4

Determination of the Forces in Swage Forging of Axially SCV/163-59-1-24/50 Symmetrical Forgings

results. Formula (13) on simplification gives formula (14) and formula (15) on simplification gives formula (16). These formulas can, however, only be used if the height of the deformation zone does not exceed the depth of the swage and if the temperature both of the forging and of the fin are equal. There are 4 figures and 8 Soviet references.

ASSOCIATION:

Ural'skiy politekhnicheskiy institut (Ural'skiy Polytechnical

Institute)

SUBMITTED:

April 7, 1958

Card 4/4

S/149/62/000/005/008/008 A006/A101

AUTHORS:

Pezdeyev, A. A., Tarnovskiy, I. Ya., Vaysburd, R. A., Orlov, S. N.

TITLE:

On the calculation of force in pressing aluminum alloy rods

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya,

no. 5, 1962, 145 - 155

TEXT: In order to develop methods of determining the force in pressure working of metals, the authors attempted the derivation of a formula to calculate the force in rod pressing, using direct methods of variation calculus. Force and pressure are calculated with the use of a rough, approximate metal flow diagram (Fig 1) where the container is divided into 3 sections, the velocity diagram (Fig 1) where the container is divided into 3 sections, the velocity diagram is kinematically possible, and value "a" is the depth of deformation field is kinematically possible, and value "a" is the depth of pressing spread. The following simplified formula for the necessary force in pressing rods is derived:

derived: $\frac{p_{c}}{2\tau_{s}} = 1.1 + 1.15 \, \lg \lambda + 2 \sqrt{\frac{0.4\lambda + 0.6}{\sqrt{\lambda}} - 1 + 2.8 \, \frac{L}{D}}; \tag{6}$

 λ is the extrusion. The calculated data were experimentally checked and their

Carl 1/4

s/149/62/000/005/008/008 A006/A101

On the calculation of force in...

satisfactory agreement makes it possible to recommend the relation obtained for the determination of the pressing force for aluminum alloys. Calculations with the use of formula (6) are simple and do not yield indefinite results as e.g. Gubkin's formulae. Graphs are plotted to facilitate calculation (Figure 7). There are 2 tables and 7 figures.

ASSOCIATIONS: Ural'skiy politekhnicheskiy institut (Ural Polytechnic Institute)

Kafedra obrabotki metallov davleniyem (Department of Pressure

Working of Metals)

April 9, 1962 SUBMITTED:

Card 2/4

On the calculation of force in...

Figure 1. Kinematic diagram of metal flow and shear volumes in pressing rods from a round container

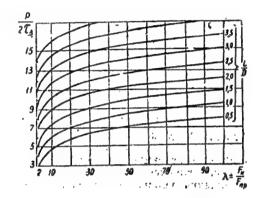
Legend: r_n is the rod radius; R is the container radius; L is the length of the pressed ingot; l_m is the length of the operational zone of the die; a is the depth of deformation seat spread (variable parameter)

Card 3/4

3/149/62/000/005/008/008 A006/A101

On the calculation of force in...

Figure 7. Graph of function $\frac{p}{2^{\frac{1}{3}}s} = f(\lambda; \frac{L}{D})$ for K = 1.4 (K is $\frac{\tau^{\frac{1}{3}}s}{\tau_{S}}$; τ_{S} is friction stress; $\tau^{\frac{1}{3}}s$ is the shear yield point)



Card 4/4

3/148/61/000/002/004/01 A161/A133

1.1310 AUTHORS:

Tarnovskiy, I. Ya., Ganago, O. A. Vaysburd, R. A.

TITLE:

Calculating the forces in drop and forging

PERIODICAL: Izvestiya vysshikh uchobnýkh zavedeniy. Chernaya metallurgiya, no. 2

1961, 51 - 61

The rated pressing stress of presses has to be selected for the ex-TEXT: pected maximum pressure required, i.e., finish forging when the surplus metal of the blank is forced out into the flash. The high number of existing theoretical and empirical formulae show that the problem is both important and difficult to solve. Usually the zone of plastic deformation at the flash space is determined experimentally and the data are used for calculations. The authors consider this practice wrong since the results are correct for the definite experiment conditions only, and use a different approach. The article presents a mathematical analysis in which the spreading of the plastic deformation zone at the flash space is determined theoretically for the minimum (instead of the maximum) full deformation energy. This principle itself had been treated in three previous works [Ref. 8: I. Ya. Tarnovskiy, A. A. Pozdeyev, V. B. Lyashkov. Deformatsiya metalla pro pro-

Card 1/4

8,148/61/000/002/004/011

Calculating the forces in drop and forging

katke (Metal deformation in rolling), Metallurgizdat, 1956; Ref. 9: I. Ya. Tarnovskiy, O. A. Ganago, R. A. Vaysburd. "Nauchnyye doklady vysshey shkoly. Metallurgiya, 1959, no. 1; Ref. 10: I. Ya. Tarnovskiy, A. A. Pozdeyev. "Nauchn. dokl. v. shk. Metallurgiya", 1958, no. 1]. Numerous experiments had been conducted with coordinate networks traced in different portions of specimens and deformations studied with tool microscope, and the same means were used later for verifying the theoretical conclusions. A formula describing the real spread of the plastic deformation into the die cavity has been derived (see Figure 1, a):

 $h_{\Pi} = h_3 + a_1 h_3 \left(1 - \frac{x^2}{B_0^2}\right),$ (1)

where h - current ordinate (or height) of expanding seat of plastic deformation; a_1 - indeterminate (variable) parameter. The formula (1) determines only the shape of the boundary between the rigid (1) and the plastic (2) zone in the forgings, but the volume of the plastic deformation zone depends on the variable parameter (a_1) . This parameter is determined by the following analysis. An electronic computer had been used for more accurate calculations. The Simpson rule and the Siebel formula (the latter for the determination of specific contact friction) are employed in the derivation of the final two simple formulas (12) and (13) for the

Card 2/4

S/148/61/000/002/004/011 A161/A133

Calculating the forces in drop and forging

case of flat and of axially symmetric forgings:

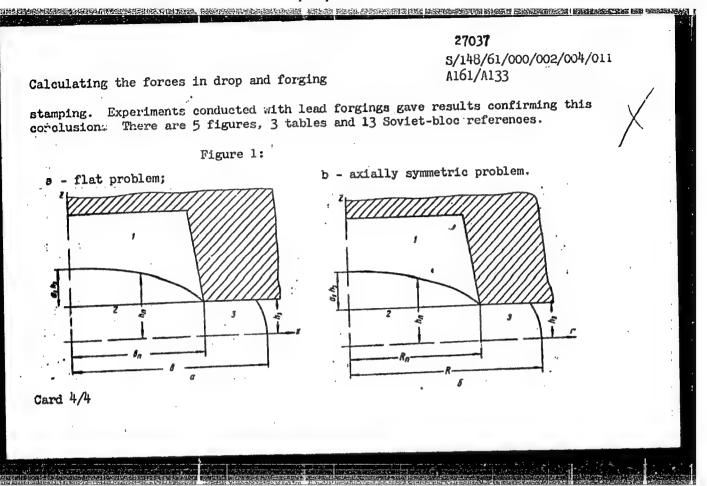
$$\frac{p}{1.15_{05}} = 1 + 0.25 \frac{B}{H_5}, \tag{12}$$

where B = 2b is the width of the forging with the flash bridge; $H_- = 2h_-$ - the flash thickness:

$$\frac{D}{Q} = 1 + 0.17 \frac{D}{H_{\odot}}, \tag{13}$$

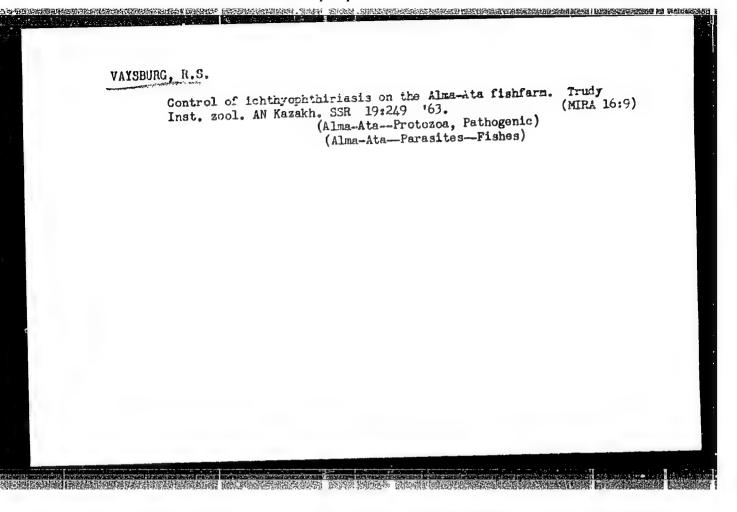
where D is the forging diameter with the flash bridge. The formula (12) corresponds the formula obtained by Unksov [Ref. 12: Plasticheskaya deformatsiya prikovke i shtampovke (Plastic Deformation in Forging and Stamping), Mashgiz, 1939] for the calculation of the stresses during upsetting between two parallel plates, and the formula is known as the Siebel formula derived for the case of upsetting of cylinders. This coincidence of the formulae leads to an important conclusion that the value of the force required for finish forging depends not on the configuration of the forging in the vertical cross section, but on the shape and dimensions of the forging in the plane, the flash thickness, and the temperature and speed of

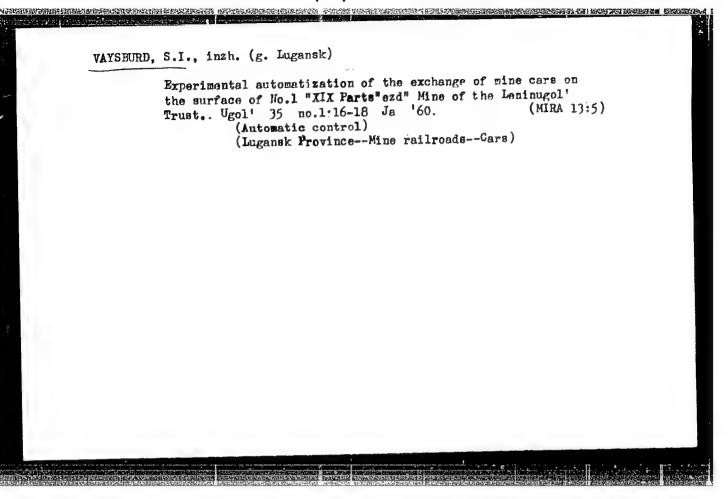
Card 3/4



TARNOVSKIY, Iosif Yakovlevich; POZDEYEV, Aleksandr Aleksandrovich; GANAGO, Oleg Aleksandrovich; KOIMOCOROV, Vadim Leonidovich; TRUBIN, Valeriy Nikolayevich; VAYSBURD, Rual'd Arkad'yevich; TARNOVSKIY, "aleriy Iosifovich; GOROBINCHENKO, V.M., red. izd-va; BENKER, O.G., tekhn. red.

[Theory of working metals by pressure; variational methods of calculating forces and deformations] Teoriia obrabotki metallov davleniem; variatsionnye metody rascheta usilii i deformatsii. [By] I.IA.Tarnovskii i dr. Moskva, Metallurgizdat, 1963. 672 p. (MIRA 17:1)





VAYSBURD, S.Ye.; KHEYFETS, V.L.

Electrochemical study of the interaction between metallic iron and alag (displacement of nickel from slags by the iron).

Izv.vys.ucheb.zav.; tsvet.met. 2 no.6:76-84 '59.

(MIRA 13:4)

1. Institut "Gipronikel"

(Electrochemistry) (Slag-Analysie) (Ion exchange)

VAYSBURD, S. Ye. Cand Chem Sci -- "Study of the thermodynamic properties of iron-containing silicate Fusions by the electrochemical method." Len, 1959.

21 pp (Min of Higher and Secondary Specialized Education RSFSR. Len
Order of Labor Red Banner Technological Inst im Lensovet), 200 copies

(KL, 49-59, 138)

-14-

	Trudy; [abornik] (Transactions of the Pourth Conference on Election Todomaity; Collection of Articles) Roscow, 1256. Trudy; [abornik] (Transactions of the Pourth Conference on Election Todomaitry; Collection of Articles) Roscow, 1zd-vo AN SSSI., 1959. (Solds pirined. Sponsorius Reency: Akadamya nauk SSSN, Ordeleniye khimitheskith	Academician, O.A. Yesin, N.B.N. Kabanov, Pro- B.N. Kabanov, Pro- iciances; V.V. Josev, P.D. — V.V. Stendor, Professor; ng House: N.G. Yegorov;	M. 15 41 8	Sattroop Mr.V., and L.D. Yubbina (Urlakiy filial AN SSSR-Ural Branch, Academy of Sciences, Uses); Cathologic Processes During the Freehitstion of Thorites Procedure Took Procedure Statement Statement Prom Procedure Englishment Statement Procedure Statement	Johno- Solentifie of the se of the	50	Chounyk M.G. (Aviatalonnyy institut Kuybyshev-Aviation insti- tute, Kuybyshev). Some Problems of the Polarography of Pused Electrolytes	, and V.L. Eheyfets (Gosudarstvennyy in	po proyektirovaniyu predpriyatiy nikelevoy promyshlennusti- Stare Institute for the Flanning of Enterprises of the Mikel Industry. Decemberation Voltage and Properties of Slags Used in Honferrous Metallungy		PART V. THE ELECTRODEPOSITION OF METALS 369	Enishew. R	4(1)	A.T. Nonhomogeneity of an Electrode Surface and	Card 16/3%	the Mechanism of the Electrodeposition of Netals 395 Polukarov, Yu. M., and K.M. Gorbunova (Institute of Physics) Chesistry, Academy of Sciences HSSP Sone Theoretical
--	--	--	------------	--	---	----	---	---	---	--	---	------------	------	---	------------	--

5.4130,5.1310,5.4600

75655 SOV/80-32-10-4/51

AUTHORS:

Vaysburd, S. Ye., Kheyfets, V. L.

and the contraction of the contr

TITLE:

Concerning the State of Cuprous Sulfide in Iron-Bearing

Molten Silicates

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 10, pp 2153-

2157 (USSR)

ABSTRACT:

This is a study of the above silicates with addition of iron and copper sulfides. Samples: silicate melts of the CaO-FeO-SiO $_2$ type containing some MgO and Fe $_2$ O $_3$,

and a multicomponent slag of shaft furnace smelting. Test conditions: MgO crucibles; nitrogen atmosphere; 1,250 ± 5°. After measurement of the decomposition voltage E, quenching, and removal of sulfide and metal inclusions, the silicates were analyzed chemically; the slag ionic composition and decomposition voltage E of were calculated, taking into account the trivalent iron content. The presence of S introduced as FeS did not affect the anode potential since anode polarization

Card 1/3

Concerning the State of Cuprous Sulfide in Iron- 75655
Bearing Molten Silicates 50V/80-32-10-4/51

was insignificant, and highly concentrated iron was first to be oxidized at the anode. The presence of Cu₂O caused a sharp drop in decomposition voltage; this indicates that, owing to dissociation to Cu+ ions, metal (alloy) cathode plating started at a cathode potential higher with respect to a comparable slag containing no Cu. On the other hand, since addition of CuSo did not affect the cathode potential, CuSo remained undissociated. FeS and CuS, concentrations on par with the S and Cu content of industrial slags have no effect on the decomposition voltage and hence on iron activity (γ); knowledge of slag component-oxide content will, regardless of sulfur content, suffice for the industrial application of E and γ . There is 1 table; 1 figure; and 8 references, 6 Soviet, 1 British, 1 German. The British reference is: Bockris, J., Kitchener, G., Ignatowicz, S., Fomlinson, J., Faraday Soc, 48, 75 (1952).

Card 2/3

Concerning the State of Cuprous Sulfide in Iron-

75655

Bearing Molten Silicates

SOV/80-32-10-4/51

ASSOCIATION:

Planning and Scientific Research Institute of the State Institute for the Design and Planning of the Nickel Industry (Proyektnyy i nauchno-issledovatel'skiy institut

gipronikel')

SUBMITTED:

September 30, 1958

Card 3/3

S/080/63/036/001/023/026 D204/D307

AUTHORS:

Remen', T.F., Kheyfets, V.L., and Vaysburd, S.Ye.

TITLE:

The activity of sulfur in binary systems Fe-S,

Co-S, and Ni-S

PERIODICAL:

Zhurnal prikladnov khimii, v. 36, no. 1, 1963,

218 - 220

TEXT: The present work is a continuation of an earlier study (Izv. vuzov, Tsvet. Metallurg., 6, 58 (1961)). The activities, as, were determined from emf measurements, at 1250°C, with a solid metallic reference electrode, and the calculations were performed by graphical integration of the Gibbs-Duhem equation in the form suggested by Vagner (Termodinamika splavov [Thermodynamics of alloys], Metallurgizdat (1957))

$$\lg \gamma_{S} = \int_{0}^{N_{Me}} \frac{\lg \gamma_{Me}}{(1 - N_{Me})^{2}} dN_{Me} - \frac{N_{Me}}{1 - N_{M\acute{e}}} \lg \gamma_{Me}. \tag{1}$$

Card 1/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210001-4"

\$/080/63/036/001/023/026

The activity of sulfur ...

taking a_S as unity for compositions to FeS, CoS, and Ni $_3$ S $_2$. The results are presented in graphical form and show (a) strong negative deviations of S from ideality in all 3 cases, indicating strong bonding of S to Fe, Co and Ni, particularly for low atom % S, (b) Co-S bond is stronger than Fe-S bond, (c) good agreement with available literature data, and (d) dependability of the method used. There are 3 figures.

SUBMITTED:

March 26, 1962

Card 2/2

REMEN', T.F.; KHEYFETS, V.L.; VAYSBURD, S.Ye.

Activity of metals in binary systems Fe = 3, Co = S and Ni = S.

Izv. vys. ucheb. zav.; tsvet. met. 4 no.6:58-64 '61.

(MIRA 14:12)

1. Proyektnyy i nauchno-issledovatel'skiy institut "Gipronikel'".

(Sulfides—Metallurgy)

(Activity coefficients)

VAYSBURD, S.T., inzh.; KHEYFETS, V.L., kand.tokhn.nauk

Louic model of a molten iron-bearing silicate and the activity coefficient of iron in liquid slags. Izv.vys.ucheb.zav.; chern. met. 2 no.5:11-18 My '59. (MIRA 12:9)

1. Leningradskiy institut Gipronikel'. Bekomendovano kafedroy elektropironetallurgii tsvetnykh metallov Leningradskogo politekhnicheskogo instituta.

(Activity coefficients) (Slag)

ABUSHKEVICH, P.V.; VAYSBRUD, V.I.; KULIKOV, I.A.; LEV, M.I.; MAZURIN, N.D.; ROZINA-ITSKINA, TS.S.; TIKHONOV, G.I.

Epidemic and etiological nature of the virus influenza epidemic in Khabarovsk in January-March 1959. Vop. virus. 5 no. 6:750 N-D '60. (MIRA 14:4)

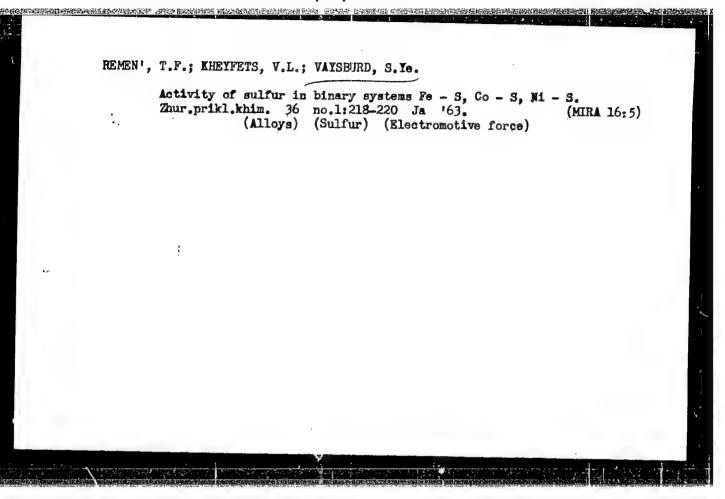
(KHABAROVSK--INFLUENZA)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210001-4"

VAYSBURD, S.Ye.; VERNER, B.F.; KHEYFETS, V.L.

Activity of iron in Fe - Ni - S melts. Izv.vys.ucheb.zav.; tsvet.met. 5 no.1:59-67 '62. (MIRA 15:2)

1. Proyektnyy i nauchno-issledovatel'skiy institut "Gipronikel'". (Activity coefficients) (Iron sulfides) (Nickel sulfides)



REMEN', T.F.; KHEYFETS, V.L.; VAISHURD, S.Te.

Iron activity in the system Cu - Fe - S. Isv. vys. ucheb.
zav.; tsvet. met. 5 no.6:57-61 '62. (MIRA 16:6)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy
nikelevoy promyehlennosti.
(Systems(Chemistry))
(Iron—Testing)
(Activity coefficients)

83167 \$/056/60/039/002/004/044 B006/B056

24.6900 AUTHORS:

Vaysenberg, A. O., Smirnitskiy, i. A.

TITLE:

Asymmetry in the π^+ - μ^+ - e^+ Decay in a Magnetic Field

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960, Vol. 39, No. 2 (8), pp. 242-248

TEXT: It was the purpose of the present paper to investigate the dependence of the asymmetry coefficient of the above reaction in photoemulsions of the type HNK PN - P (NIKFI-R) on the magnetic field strength in the range of 0 - 20 koe. The asymmetry coefficients were measured at H = 0, 54, 110, 206, 420, 680, 1300, 1900, 2500, 3500, 5100, 6300, 14,000 and 17,000 oe, where \vec{H} was parallel to the emulsion plane. For shielding the field in the synchrocyclotron room, a double soft-iron shield was used. The magnetic fields in which asymmetry was measured, were generated by an electromagnetic. The authors thank I. I. Gurevich and B. A. Nikol'skiy for placing a special electromagnet at their disposal for the purpose of producing the 14- and 17-koe fields. The

Card 1/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210001-4"

Asymmetry in the π^+ - μ^+ - e^+ Decay in a Magnetic Field

83167 S/056/60/039/002/004/044 B006/B056

emulsion chambers consisted of 50 to 100 400- μ NIKFI-R layers, which had been bombarded with π^+ -mesons on the synchrocyclotron of the OIYaI (<u>Joint Institute</u> of Nuclear Research). The asymmetry coefficient a is calculated from the relation a = $K(N_V-N_R)/(N_V+N_R)$, where N_V denotes the

number of decays for which the projection of γ and β lay in one quadrant of the ocular scale (the first or third), N_n denotes the number of decays where these projections lay in the opposite quadrant. γ and β are the angles formed by H and the emission directions of μ^+ and e^+ , respectively. In first approximation, which is accurate up to some %, K=1.57. The results of these investigations are shown in Tables and in a diagram, and are the following: 1. a grows from -0.09 ± 0.01 (H=0) to -0.29 ± 0.01 (H=17-27 koe). 2. In the range of 0-17 koe, the course of the a(H) curve is such that a is not proportional to $x^2/(1+x^2)$ (see Fig.) as would be expected to follow from the polarization formula for the Paschen-Back effect in muonium; ($x=H/H_0$, $H_0=1580$ oe, - the mean field produced by the magnetic moment of the μ^+ -meson on the electron orbit in muonium). 3. The observed effect may, however, be explained by the

Card 2/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210001-4"

Asymmetry in the π^+ - μ^+ - e^+ Decay in a Magnetic Field

S/056/60/039/002/004/044 B006/B056

Paschen-Back effect in muonium if it is assumed that an additional depolarization due to charge exchange occurs at the end of the μ^+ -path or to exchange collisions after its stoppage. 4. The maximum a-value of -0.29±0.01 is lower by 10% than the value a = -1/3, which follows from the theory of weak V-A interaction. This deviation cannot be explained by errors in measurement; it is due either to an additional depolarization of about 10% in the emulsion, or the μ^- e decay asymmetry cannot be satisfactorily described by weak V-A interaction. 5. In this as well as in a previous paper (Ref. 2), about 340,000 π^+ - μ^- e decay events were evaluated. A search was made especially for $\mu^+ \rightarrow 3$ e or $\mu \rightarrow e+3+3+\gamma$ decays, but not a single case could be found. The authors thank A. I. Aliknanov for his interest, D. M. Samoylovich, Ya. B. Zel'dovich, A. M. Perelomov, and L. P. Panov for their assistance. There are 1 figure, 3 tables, and 14 references: 4 Soviet and 10 US.

SUBMITTED:

February 23, 1960

Card 3/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210001-4"

				:.	j	•			: •		- ;-					
waru 4/y	Prototy, O.G., Reibert, W.L. Vollfoot, Ch. I. Cheskis, Candidates of Tracal Sciences, and L.D. Sabharoublin, Engineer. Cracking of Sarety valve Springs in Contact with Unstabilized Gasolines and Liquidad Gases.	I. Kacarina, Ingineers, participated	Steri in Bedium Ritrate Solutions (2) Titer, T.A., Candidate of Pechnical Sciences. The Effect of Kydrogen Siffuries of Steel on its Endurance	Aricain, P.P., Cardidate of Technical Sciences, Correston Cracking of High- Bireogh Steels	"Unrething and A. J.B. Krymato, Candidates of Technical Sciences, and G.I. Natuabines. Resistance of Transportation Blade Steels to Cartistion Resistance Upon the Uniformity of Structure and Mechanical Properties 227 IT. STREES CORROSING OF CARSON STREES AND ION-ALLOT STREET.		Joyne D. The Condidate of Technical Sciences, not T.M. Mittey Low, Tailor Scientific Veyter. Effect of Tarious Enterments on the Siress Corrector of Austentit Steels at Superstitud Parameters	Rynbohenbry, A.F., Doctor of Chemical Sciences, Professor, and T.K. Midlerows, Sendon Scientific Morber, Candidate of Technical Microsia. The folio of Electrochadeal Pactors in the Process of Arreston Cracking of Amstendia Steels.	Notice and its process of recently the Tendency of Statutes Special Struct Interestable Correction the Tendency of Statutes Special 162	and the neture of correcton and correction cracking is analyzed to personalizing or mentioned. Nest of the settlement secondaried by bibliographic references, the sajority of which are Soviet.	CVENUE: The collection contains discussions of intercrystalline correston of stabless swell and stress correston of earbon steels, low-alloy and stabless skells and alloys and nonterrous alloys. The tendency of steels, of warlows composition and system to corredo makes central named to be all 15.	FURNOR: This collection of articles is intended for technical personnel concerned with problems of corresion of metals.	Ed.: I.A. Levin, Candidate of Technical Sciences; Ed. of Publishing House: Ill. Lestichenthy, Engineer; Tech. El.: Y.D. El'Mind; Managing Ed. for Liversture on Metal-veriling and Instrument Maching (Managin; Ed. for Engineer; Editorial Board: I.A. Levin, Candidate of Technical Sciences (Chairman), T.F. Barrabor, Candidate of Technical Sciences, T.M. Hintogrees, Candidate of Technical Sciences, and A.V. Turborshayes, Candidate of Technical Sciences.	Neithristallithaya borroziya i Korroziya metallov v napryazherocca mostoyanii (Interrystalline sed Stress Corrosion of Metals) Moscov, Manhgiz, 1960, 198 p. 3,000 copies printed.	Teesoyuriyy sovet nauchno-tahbulcheskih obshchestv	

VAYSBURG, L., konstruktor; VYSHLOV, V., konstruktor

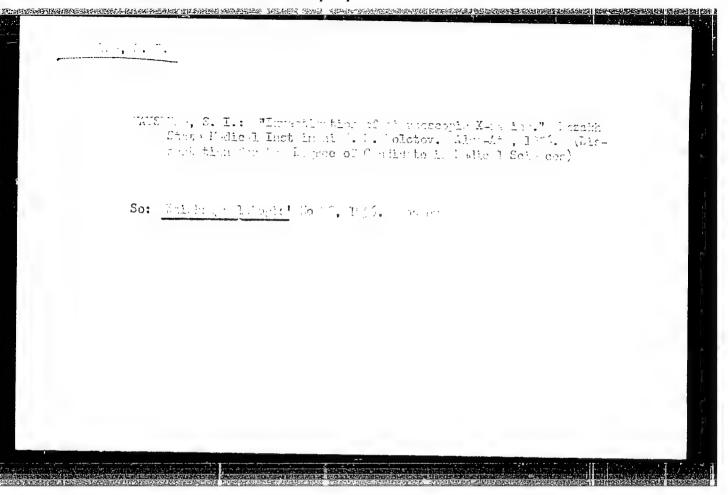
PTB-2 loader. Mor.flot 18 no.3:22-23 Mr '58. (MIRA 11:4)

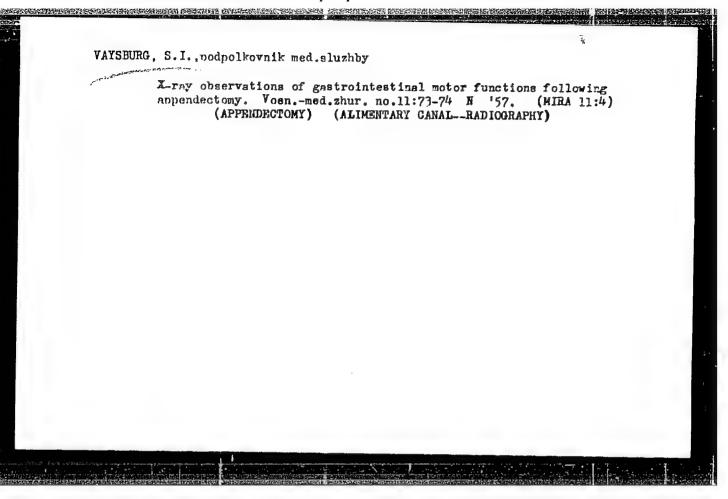
1. TSentral'noye proyektno-konstruktorskoye byuro No.1
Ministerstva morskogo flota.
(Loading and unloading)

WATSBURG, S.I., podpolkovnik meditsinskoy slushby

Radiography of the bones and joints with the patient in a vertical position. Voen.-med. shur. no.9:72 8 '55. (MLRA 9:9) (BOME-RADIOGRAPHY)

(JOINTS-RADIOGRAPHY)

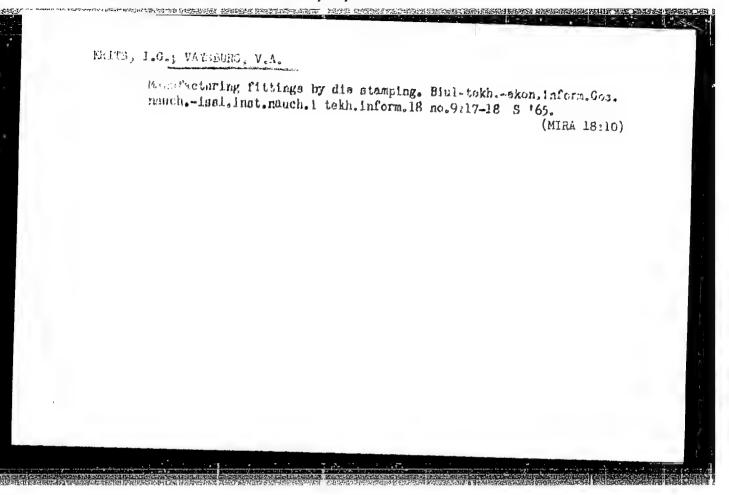


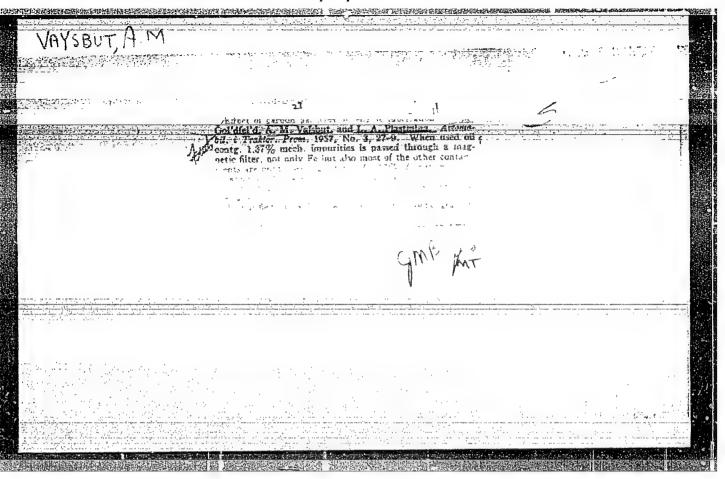


Use of stereoscopic X ray. Voen.-med. zhur. no.5:33-36 My '60.

(X RAYS)

(X RAYS)





507/113-59-2-6/20

AUTHOR:

Gol'dfel'd, S.M., Vaysbut, A.M. and Plastinina, L.A.

TITLE:

Various Filtering Systems of Oil-Cleaning in Engines

(Ochistka masla v dvigatelyakh pri razlichnykh sistemakh

filtratsii)

PERIODICAL:

Avtomobil'naya promyshlennost', 1959, Nr 2, pp 11-13 (USSR)

ABSTRACT:

The article deals with various oil-filtering systems in internal-combustion engines. These systems reduce the wear on piston rings, cylinders, and on lead-bronze bushings in connecting rods. The tests were conducted by the Odessa Electrotechnical Institute of Communications, with the "D-54" four-cycle engines and with the "YAMZ-204" and "YAMZ-206" two-cycle engines. The results reveal that deterioration of moving parts depends largely on the degree of acid and water in the oil, and on the size of particles suspended in it. As countermeasures, various filtering systems were tested including one with a magnetic separator of tiny particles. The best results were obtained with systems using reactive centrifuges and ASFO-type filters. There

Card 1/2

are 4 tables, 1 graph, and 3 Soviet references.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210001-4"

Various filtering Systems of Cil-Cleaning in Engines

30V/113-59-1-6/20

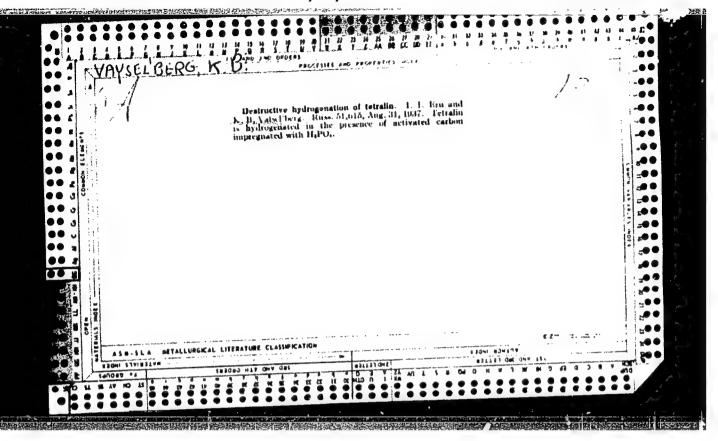
ASSOCIATION: Odesskiy elektrotekhnicheskiy institut svyazi (Odessa Electrotechnical Institute of Communications).

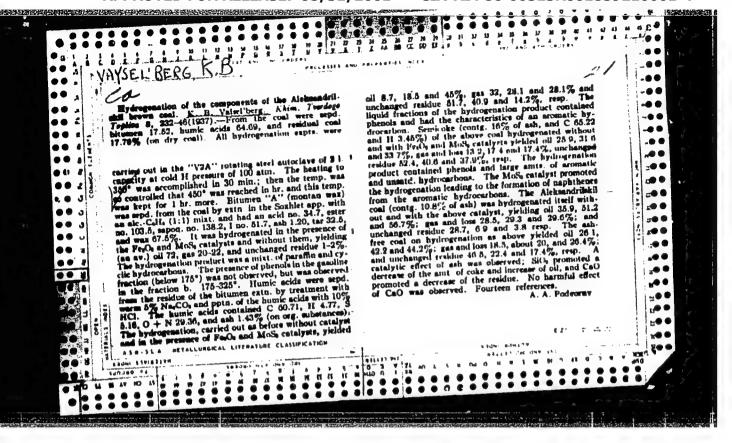
Card 2/2

GOL'DFEL'D, S.M.; VAYSBUT, A.M.

Use of an auxiliary magnetic separator for improving centrifugal oil cleaning. Avt. prom. 27 no. 4:12-14 Ap '61. (MIRA 14:4)

1. Odesskiy elektrotekhnicheskiy institut svyazi. (Automobiles-Engines-Oil filters)





VAYSEL'D, O. I.

Cysta

Case of strangulating obstruction caused by appendiceal cyst. Vest. Whir. 72 no.7 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

VAYSELEVA, S. M. "Microflors of various forms and zones in the inflammations of the plup,"

Vayseleva, S. M. "Microflors of various forms and zones in the inflammations of the plup,"

Trudy Kazansk. gos. stomatol. in-ta, Issue 2, 1919, p.209-217, - Bioliog: Ih items.

So: U-5240, 17 Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1919).

ZIV, Ye.F.; VAYSENBERG, A.I.; STEPANOV, I.S., nauchnyy red.; YERSHOV, A.D., glavnyy red.; GINZBURG, A.I., red.; ZVEREV, L.V., red.; KREYTER, V.M., red.; MOKROUSOV, V.A., red.; SOLOV'YEV, D.V., red.; KHRUSHCHOV, H.A., red.; CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V., red.; NEKRASOVA, N.B., red.; IVANOVA, A.G., tekhn.red.

[Industry's requirements as to the quality of mineral raw material; hand-book for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. No.49. [Niobium and tantalum] Niobii i tantal. (MIRA 12:12) Izd.2., perer. 1959. 49 p.

l. Moscow. Vsesovuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. (Niobium) (Tantalum)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210001-4"

CENTRE A BUILD BOOKS TO SHEET BUILD IN THE SHEET BOOKS TO SHEET BO

SAMSONOV, Grigoriy Valentinovich; KONSTANTINOV, Vladimir Ivanovich.

Prinimali uchastiye: ZIV, Ye.F.; KOSOLAPOVA, T.Yr. NIKOLAYEV,

U.S., doktor khim.nauk, setsenzent; VAYSKNBERG, A.I., kand.tekhn.

nauk, retsenzent, red.; KOLCHIN, O.P., kand.tekhn.nauk, retsenzent,

red.; ARKHANGEL SKAYA, M.S., red.izd-va; VAYNSHTEYN, Ye.B., tekhn.

red.

[Tentalum and niobium] Tental i niobii. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959. 264 p. (MIRA 12:11)

(Tantalum)

(Niobium)

BELTETURE FEBRUARIO ANTERIA DE RESEA DE SERVERO DE LES ANTES DE LES ANTES DE LA CONTRE DEL CONTRE DE LA CONTRE DEL CONTRE DE LA CONTRE DE LA CONTRE DEL CONTRE DE LA CONTRE DEL CONTRE DE LA CONTRE DE L

VAYSENBERG, A. O.

Adsorption of cosmic rays in a strong magnetic field at 3250 meters above sea level. A. I. Alikhanyan, A. A. Alikhanov, S. Ya. Nikitin, and A. Vaysenberg. J. Phys. (U.S.S.R.) 10, 294-5 (1946); cf. preceding abstr.— Analysis of the soft component of cosmic rays by means of an intense magnetic field shows that the component having a range of 4-4.5 cm. in Pb is not deflected by the field, and confirms that the particles generated in Pb are protons.

B. A.

VAYSENBERG, A. O.

speciality-nuclear Physics

Scattering of relativistic electrons at a large angle. A. I. Alikhanyan, A. I. Alikhanov, and A. Vaysenberg. J. Exptl. Theoret. Phys. (U.S.S.R.) 16, 369-78 (1946); J. Phys. (U.S.S.R.) 9,280-8 (1945).- Fast electrons from 100-200millicurie radon sources (Ra C electrons, upper limit 3175 kv.) were monochromatized by a magnetic spectrograph and beams of energies from 600 to 2000kv. were scattered on thin films placed at 450 to the beam. Scattering was observed with Geiger-Muller counters at an angle between 820 and 970; y -radiation from the source was eliminated. The scattering metal films were obtained by thermal vacuum evapn. and depositted on 2-4- celluloid foils, which contributed not over 10% to the total scattering. By the criterion of linearity of scattering intensity and film thickness, preliminary expts. on Al, Ni, Ag, and Au layers showed that singleness of scattering is approximated the better the faster the electrons, example Al 3.0 and 6.0 mg./sq. cm., energy of electrons 850, 1000, 1200, 1330 kv., ratios of intensities scattered by the thicker and by the thinner film = 2.71, 2.55, 2.19, 2.06, resp. According to Wentzel's (C.A. 17, 923) criterion for single scattering at an angle 9, namely not more than two deflections on the av. by an angle € p/4, scattering of 1000-kv. electrons in Al 100 mg./sq. cm. thick should still be single, whereas exptl. results show that multiple scattering occurs even in 6 mg./sq. cm. Al; consequently, Wentzel's criterion is not applicable. On the other hand, the exptl. ratios obtained check satisfactorily with Artsimovich's formula $N = x + [(1.51 \times 10^{-2} \times 2)/E^2]$ where N = no. of electrons scattered by Al, E = energy of electrons in m.e.v., x= THICKNESS of film in Al, and bear out his basic representation of the possibility of

VAYSENBERG, A. O.

Page 2

deflections by large angles through repeated deflections by smaller angles. Final detns. were made with x and E for which scattering is most nearly single, example Al 1.55, 3.00, 6.00 mg./sq. cm., E $\equiv 600\text{-}1050$, 800-1200, 1100-1600 kv., resp. For celluloid (at. no. Z = 7.1), Al, Cu, Ni, Ag, Au (Z = 79), probability of scattering varies with E along the same curve, identical with Mott's theoretical quantum-mechanical curve (cf. C.A. 23, 5406). Abs. values of the scattering on light nuclei and their dependence on Z also check with Mott's theory (example, for Al 3 mg./sq. cm., 1000 kv., within 10-15%), with the exception of Au, for which the exptl. cross-section is about 2.5 times smaller than that predicted by the theory; for Ag (Z = 47), owing to the absence of a numerical formula, agreement cannot be asserted. The rapid increase of the effective cross section on scattering by higher angles, claimed by Skobel'tsyn and Stepanova (C.A. 30, 3317); 32,2825), is not confirmed.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210001-4"

VAYSENBERG, A. O.

"Spectrum of Mesotrons at the Altitude of 3,250 Meters Above Sea Level."
Sub 16 May 47, Order of the Labor Red Banner Inst of Physical Problems, Acad
Sci USSR

Dissertations presented for degrees in science and engineering in Moscow in 1947

SO: Sum No. 457, 18 Apr 55

VAYSENBERG, A. O.

USSR/Muclear Physics - Cosmic Radiation

Muclear Physics - Particles

May 47

With Existence of a Particle With Mass, Detween the Masses of a Masses and Proton, a. A. I. Ali≥han'yan, Corr Pem, Acad Sci USSR; A. I. Alikkanov, A. C. Vaysenberg, Academicasn, 9 pp

Hungalogiang ing manggapang orden and represent the representation of the property of the prop

West Akad Nauk SSER" No 5

During period 1942-1946 authors were stationed on Mount Alagez, at an altitude of 3,250 m above sea level. Discerned consic particles very different from mestricons and protons. Series of tests revealed data which showed that these particles to be ionized gases, two to three times greater than either protons or mesotrons. Hass of this intermediate particle is 250 to 2,000 m_O. They are ofther positive or megative. Authors express gratitude to V. M. Kharitonov, and M. I. Dayon.

PA 54Tú9

VAISENDERU, A. C.

Existence of particles with a mass intermediate between the mesotron and proton. A. I. Alikhanyan, A. I. Alikhanov, and A. Vaisenberg. Compt. rend. acad. sci. U.R.S.S. 55, 701-4 (1947) (in English); J. Phys. (U.S.S.R.) 11, 97-9 (1947) (in English); cf. C.A. 40, 10869, 13870.- Cosmic rays were investigated at an altitude of 3250 m. above sea level by using a system of counters which permitted simultaneous measurement of both the curvature of a particle's path and its range. Analysis of the results obtained shows that cosmic rays contain pos. and neg. particles, called "barytrons," with a mass larger than that of the meson. More than 4,000 barytrons have been observed, and the no. of pos. barytrons appears to be 1.7 times larger than the no. of neg. barytrons. At an altitude of 3250 m. above sea level, the no. of barytrons amount to 10% of the no. of mesons. Frank Gonet

anst. you Physical Problems, AS USSR

VAYSENBERG, A. O.

Existence in cosmic rays of positive and negative particles with a mass greater than the mass of the meson. A. I. Alikhanyan, A. I. Alikhanov, and A. Vaysenberg. Zhur. Eksptl. Teoret. Fiz. 16, 301-36 (1948); cf. C.A. 43, 1642c, 4105ef.— The hard and soft components of cosmic rays at 3250 m. above and soft components of cosmic rays at 3250 m. above sea level were analyzed in a magnetic field by an elaborate counter arrangement, and curves are given for the no. of trajectories vs. displacement of particles. Pos. and neg. particles are indicated with masses greater than the mass of a meson, some with masses greater than the mass of a meson, some with a mass greater than the proton mass.

F.H. Murray

USSR/Nuclear Physics - Mesotrons Apr 48
Nuclear Physics - Cloud Chambers

"Photographing the Disassociation of Heavy Mesotrons in a Wilson Chamber," A. Vaysenberg, 42 pp

"Uspekhi Fiz Nauk" Vol XXXIV, No 4

After a paragraph on the work of Alikhan'yan,
Alikhanov and himself on Mt Alagez in 1946,
Vaysenberg devotes remainder of article to a
paper by Rochester and Butler. ("Nature," 1947).

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001859210001-4

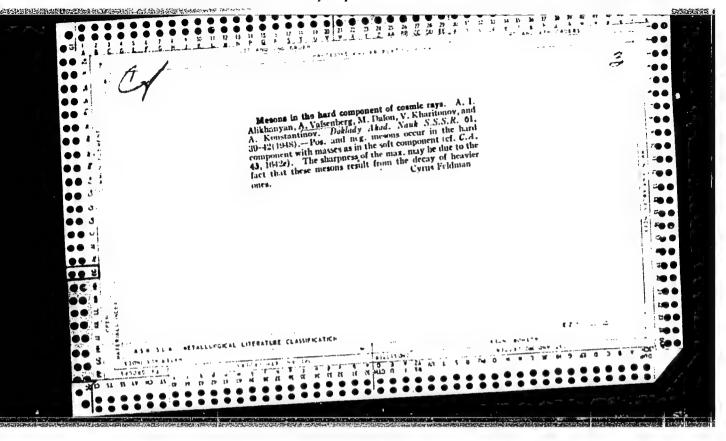
USSR/Maclear Physics - Mesotrons Jun 48
Naclear Physics - Cloud Chambers

"New Photographs of Heavy Mesotrons in a Wilson Chamber," A. Vaysenberg, 1 p

"Uspekhi Fiz Nauk" Vol XXXV, No 2

Photographs appeared in first number of "Bulletin of the American Physical Society" for 1948. Mesotron mass calculated therefrom confirms 1946 observations of Alikhanyan and other Soviet physicists.

VAYSENBERG, A	•			_		74 6/4771	
	Jun 48	a Above Sea USSR; A. of Phys		tosmic lblished SSSR, idis- trons; and 6/49T91	Jun 48	they can be resumed in tus. Tabu beerved. passed through 1.05 cm load itheir pre their pre cles. Sub	6/4 org1
	USSR/Nuclear Physics - Cosmic Radiation Nuclear Physics - Particles	"Spectrum of Varitron Mass at 5,250 Meters Al Level," A. Alikhanyan, Corr Mem, Acad Sci USS Vaysenberg, V. Kharitonov, M. Dayon, Inst of Problems, Acad Sci USSR, and Phys Inst, Acad Armenian SSR, 4 pp	"Dok Ak Wauk SSSR" Vol LK, No 9	Investigation on subject began in 1946 in Cosmic Ray Laboratory on Mount Alagez. Results published in various journals, including Vest Ak Hauk SSSR, No 5, 1947. (See Abstract 54769). Authors discovered particles intermediate between mesotrons; and 6/49791	USSE/Nuclear Physics - Cosmic Redistion (Contd)	protons, calling them varitrons because they calther positive or negative. Work was resumed 1947. Describes improvements in apparatus. Taletes masses and charkes of particles observed. Graphs show spectra of particles which passed to 0.8-cm lead sheet but were absorbed in 1.05 cm sheet. Consist of a series of well defined max minima. Authors consider this supports their prous hypotheses on ionization of particles. Smitted 29 Apr 48.	
		and Comments					1



VAYSENBLEG. A.

USSR/Nuclear Physics - Cosmic Hadiation Nuclear Physics - Particles, Charged - Trajectories Jul 48

"Varitrons in the Hard Component of Cosmic Rays," A. Alikhanyan, Corr Mem, Acad Sci USSR, A. Vaysenberg, M. Dayon, V. Kharitonov, A. Konstantinov, Inst of Phys Problems, Acad Sci USSR, and Phys Inst, Acad Sci, Armenian SSR, $3\frac{1}{2}$ pp

"Dok Ak Nauk SSSR" Vol LaI, No 1

Previous article in "Dok Ak Nauk SSSR" Vol LX, No 9 described spectra of varitron masses obtained by examination of trajectories of particles absorbed in load filters installed above a series of counters. Present article discusses data obtained on the spectrum of the hard component, Submitted 18 May 1948.

PA 8/49 T105

VAYSENBERG, A.O.

2h760. VAYSENBERG, A.O.

0 Raspade Yaritronov. Zhurmal Iksperim. I Teoret. Fiziki,

19h9, VYP. 8, S. 727-30.

S0: Letopis' No. 33, 19h9

VAYSENBERG, A. O.

PA 61/49T79

USSR/Ruclear Physics - Varitrons Nuclear Physics - Mesons

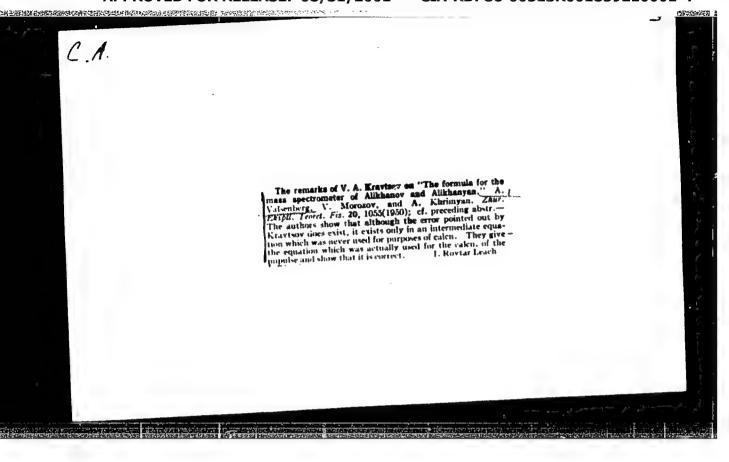
Aug 49

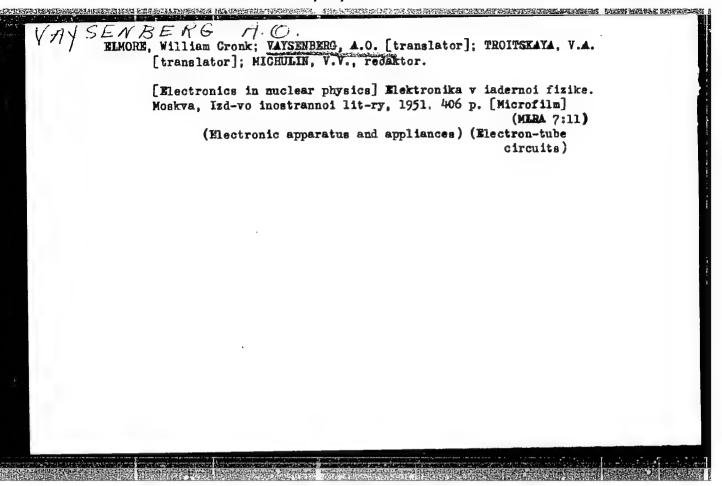
"Disintegration of Varitrons," A. O. Vaysenberg, Inst of Phys Problems, Acad Sci USSR, 3 pp

"Zhur Eksper i Teoret Fiz" Vol XIX, No 8

Recorded the spectrum of varitron masses at 3,250 meters (Alagez Mountain) using a multivibrator circuit through which the lifetime of varitrons was determined in the order of microseconds. Showed that, in this time interval, varitrons with masses greater and less than 220 me disintegrated as well as varitrons with mass 220 me. Submitted 9 Apr 49.

61/49179





VAYSENBERG, A.

Cosmic Rays

Use of scintilator - calculators in studies of cosmic radiation. Usp.fiz.nauk., 45, no. 4, 1951.

Monthly List of Russian Accessions, Library of Congress, May 1952. UNCLASSIFIED.

VAYSENBERG, A.

Mesotrons

Multiple dispersion of T-mesons., Usp. fiz. nauk, 45, no. 4, 1951.

Monthly List of Russian Accessions, Library of ongress, May 1952. UNCLASSIFIED.

VAYSENBERG, A. O., SELINOV, I. P.

MATTER

Elementary particles. Fiz. v shkole 12 no. 3 (1952)

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

valsenbeau, A. O.

PA 249T84

USSR/Nuclear Physics - Neutrons

Sep 52

"Deflection of Neutrons in a Field of Gravitational Force," A. O. Vaysenberg, Cand Phys-Math Sci

Priroda, Vol 41, No 9, p 102

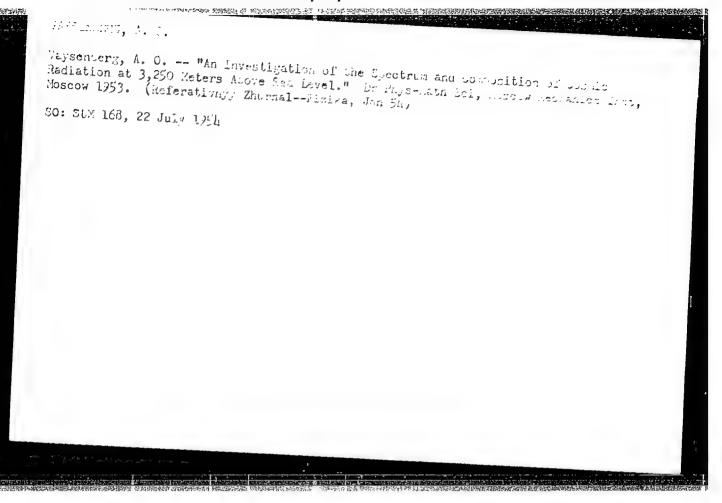
Analysis of the data of expts on the distribution of velocities of neutrons emitted in two beams from a neutron source leads to the conclusion that the acceleration of the gravitational force acting on the neutron beam and causing its displacement is equal to g= (935±70) cm/sec², which is in agreement, within the limits of exptl errors, with the usual value 980, true for macroscopic bodies. Review of the Engligh-language article by A.McReinolds Phys Rev, 1951 249784

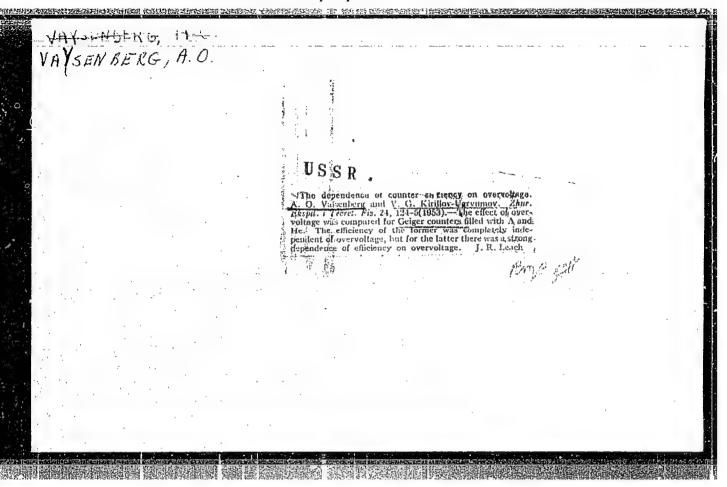
VAYSENBERG, A.

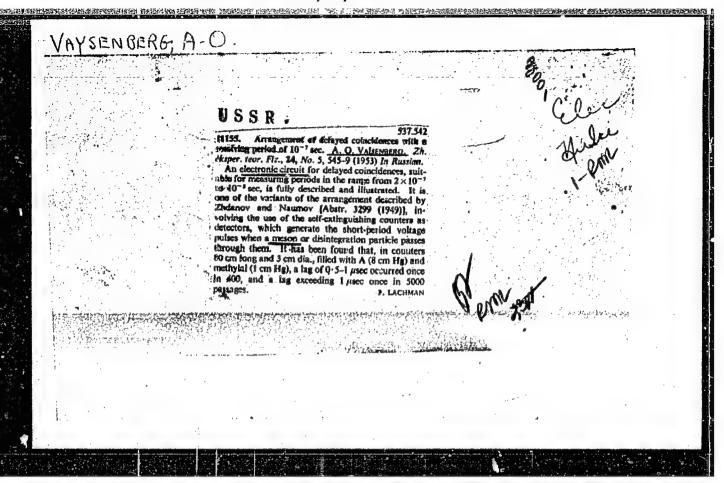
Quantum Theory

Measuring the velocity of quanta in air. Usp.fiz.nauk 46 no. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.







			• (0)	
\$ Production of	Same of the property of the property of	en die falgen gehonere engammageen were photogram despisentere		
	· . /			77. *
		USSR.	#	
	·	and the same of th	537.591.1	
		11175. Determination of the mass of cosmic-ray particles with a life period	tel of Passes	:
1		KHARITONOV. Zh. dkaper teor Fir	ZANTI V REI	٠
		See Abstr. 1032 (1950). 11155 (1950)	The means.	
	•	questions: (1) Does the air stream of or	the following	
	*	an altitude of 3250 m contain, besides t also other unstable particles with it	list st. Francisco	
		: period? (2) What it the nature of i	the decay of	·
•	-	particles to which a mass greater than proton should be ascribed? Masses	of regulation	
		apparatus which is described and its	by using an	
:		the presence of the μ - and π -mesons. He	by assuming	-:-
		were observed, involving the incidence of generating protons on the absorbing sub-	of the meson-	
Prince see	Fr 145740-1-12884623-344 (Managarana)	see street and street and street and street	bstance. F. LACHDIAN SINCE FOR	
	. :	•		

TAYSTITUTE, A. C.

A dal 36

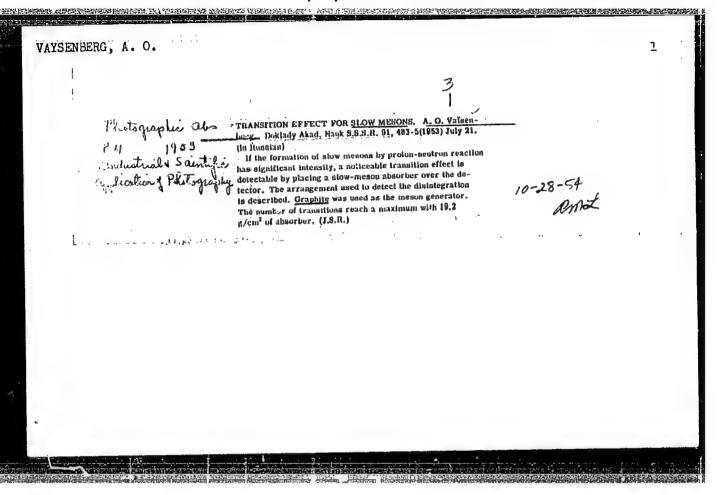
USSR/Huclear Physics - Mesons, Slew

"Transient Effect of Slow Mesons," A. O. Vaysonber;

DAN SSSR, Vol 91, No 3, pp 471-474

Describes expts, instruments, and method for detectin; transient effect of mesons originating in vicinity of recorder. Results are plotted in curve of amount of decays in relation to thickness of graphite filter. Indebted to A. I. Alikhanyan, V. Smirnitskiy, and L. Novikov. Presented by Acad A. I. Alikhanov 30 May 53.

262765



VAYSENBERG, A.O.

USSR/Nuclear Physics - Radioactivity

Card 1/1

Pub. 124 - 8/29

Authors

Alikhanyan, A. I., Memb. Corresp. of Acad. of Sc. USSR.; and Vaysenberg,

Title

Artificial radioactivity

Periodical : Vest. AN SSSR 6, 51-61, June 1954

Abstract

Speeches held in commemoration of the 20th anniversary of the discovery, by Irene and Frederic Julio-Curie, of artificial radioactivity are presented. Various stages in the development of nuclear physics, beginning with the discovery by Marie Curie of two radioactive elements Po and Ra (1897-1898), the discovery of neutron radioactivity by Fermi and associates and including developments up to 1953, were mentioned. The direct relation between artificial radioactivity and various cosmogonic problems is explained. The speakers also predicted that by 1970 the total amount of radioactive fission products obtained from reactors will reach 100 tons per year which will correspond to a radioactive radiation energy of 12 million kw.

Institution :

Submitted

WAJSENBERG, A. O. Category: POLAND/Nuclear Physics - Structure and Properties of Nuclei

C-4

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3176

: Wajsenberg, A.O. Author

: Investigation of Internal Structure of the Nucleus with the aid of Title

Mesons and Electrons

Orig Pub : Chem. szkole, 1955, 1, No 5, 4-14

Abstract : See Ref. Zh. Fiz., 1955, 18528

: 1/1 Card

ALIKHANIAN, A.I.; VAYSEHEERG, A.O., kandidat fiziko-matematicheskikh nauk

Mementary particles. Tekh. mol. 23 no.5:10-14 My '55. (MIRA 8:6)

1. Chlen-korrespondent Akademii nauk SSSR (for Alikhanian).

(Particles, Elementary) (Nuclear forces)

BAKLAYEV, Ya.P.; OVCHINNIKOV, L.N., prof., doktor geol.-min.nauk, otv. red.; VAYSBERG, S.I., red.; IZMODENOVA, L.A., tekhn.red.

[Geology and potential of the Tur'insk contact-metasomatic deposits of copper in the northern Urals] Geologicheskoe stronie i perspektivy Tur'inskikh kontaktovo-metasomaticheskikh mestorozhdenii medi na severnom Urale. Sverslovsk, 1959. 141 p. (Akademiia nauk SSSR. Ural'skii filial, Sverdlovsk, Gornogeologicheskii institut. Trudy, no.37) (MIRA 13:2) (Tur'insk region-geology)

S/076/63/037/002/006/018 B101/B186

AUTHORS:

Vaysberg, S. E., Varshavskiy, Ya. M. (Moscow)

TITLE:

Investigation of the two-temperature exchange of deuterium in the system water - hydrogen chloride

PERIODICAL:

Zhurnal fizicheskoy khimii, v. 37, no. 2, 1963, 307-309

TEXT: It was sought to determine efficiency of two-temperature columns, which is important for the concentration of deuterium, and to compare it with that of rectification. For this purpose, di-temperature isotopic separation of hydrogen was effected in counter-current columns in the system hydrochloric acid - gas-vapor mixture of hydrogen chloride and water. The deuterium content of the water was 0.65 at%, that of the hydrochloric acid 0.61 at%. Results: The two-component state of the phases may lead to a shift in the enrichment peak to beyond the current ratio λ , equal to the partition factor α of deuterium. Maximum enrichment in the given system at column temperatures of $t = 17^{\circ}C$ and $t' = 90^{\circ}C$ corresponded to $\lambda = 2.7-2.9$, whereas $\alpha_{17^{\circ}C} = 2.53$. The ratio φ between the HET on rectification of water and the HET on di-temperature isotopic exchange has Card 1/2

Investigation of the two-temperature ...

S/076/63/037/002/006/018 B101/B186

been found equal to 0.4. There are 1 figure and 1 table.

ASSOCIATION:

Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical Institute imeni L. Ya. Karpov)

SUBMITTED:

August 17, 1961

Card 2/2

BICHKOVA, K.I. [Bychkova, K.I.], kand.med.nauk; VAYSBERG, S.Ya. [Vaisberh, S.IA.], kand.med.nauk

AND STATES OF THE PROPERTY OF

Functional changes under the influence of antiallergic actions in hemorrhagic syndromes in children. Ped., akush. i gin. 23 no.6: 31. '61. (MIRA 15:4)

1. Kafedra pediatrii Donetskogo meditsinskogo instituta. (HEMOPHILIA)

L 13632-65 FBD/FSF(h)/SWT(1)/SWG(v)/EEC-4/EEC(t) Pe-5/Pae-2/Pi-4 SSD/BSD/AFWL/ASD(a)-5/AFSTR/RAEM(a)/ESD(dp)/SSD(gs)/ESD(t) GW/WS

ACCESSION NR: AP5000611

5/0021/64/000/011/1464/1468

AUTHOR: Bazelyan, L. L.; Braude, S. Ya. (Corresponding member AN UkrSSR); Vaysberg, V. V.; Krymkin, V. V.; Men', A. V.; Sodin, L. G.

TITLE: Radio emission spectral density of some discrete sources at

SOURCE: AN UKTRSR. Dopovidi, no. 11, 1964, 1464-1468

TOPIC TAGS: radio astronomy, radio telescope, radio emission

ABSTRACT: Radiation densities of eight discrete sources of cosmic radiation in the 20—40-Mc band were measured with a wide-band radio telescope. The measurements were carried out from October 1963 through February 1964. The radio telescope consisted of two electrically controlled multielement antenna arrays (each with 128 radiators) spaced 470 m apart along an E-W line. The antennas formed the elements of a T-shaped interferometer system. The width of the radiation pattern of each antenna was 4.6° at 20 Mc and 2.3° at 40 Mc; the interference interval at these frequencies was 1.8° and 0.9°, respectively. Phase-modulated radiometers (i-f bandwidths, 10—15 kc) were used for

Card 1/2